PDF Impress 10
Developer Guide

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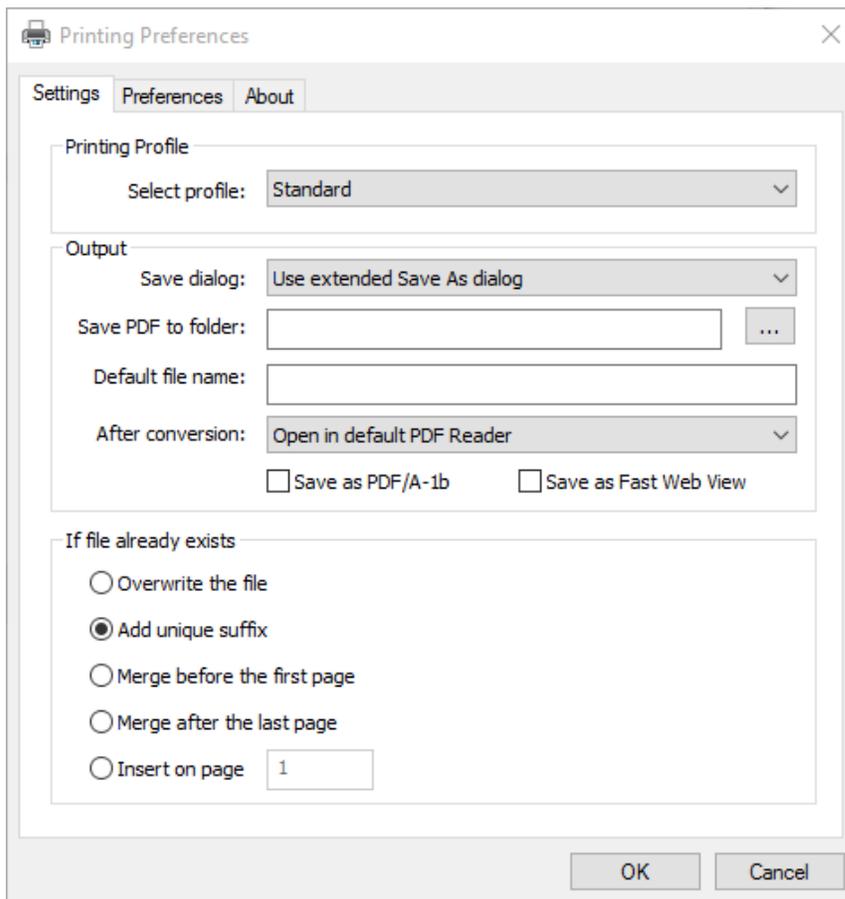# Overview

PDF Impress 10 can easily integrate with other applications or document workflow using Windows registry entries. By specifying certain printing parameters and output preferences, print output can be customized to suit your needs.

You can use any programming language to change PDF Impress registry settings before printing to the PDF Impress virtual printer. Of course direct approach via regedit.exe windows utility will work as well.

PDF Impress 10 allows changing all tasks in PDF profile and all parameters available on PDF Impress Printing Preferences dialog as shown below:

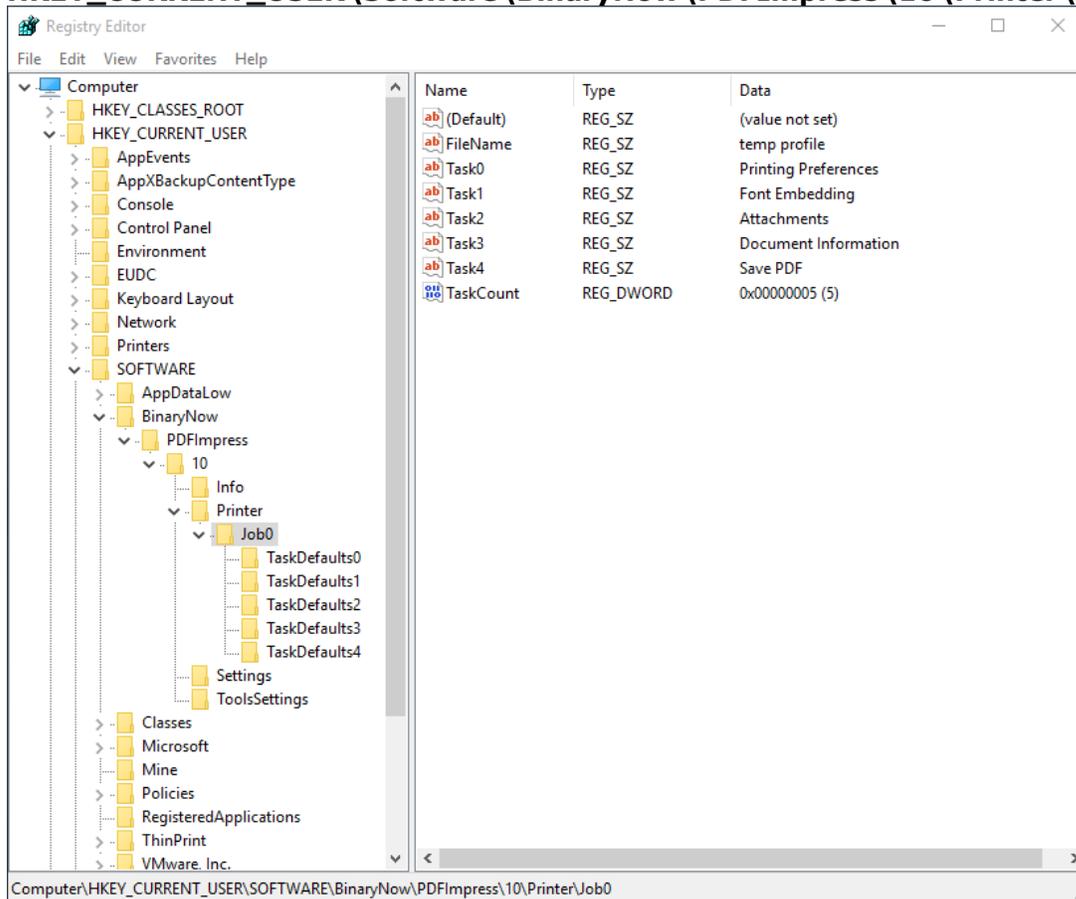User integration provides developers with the ability to directly modify the settings used by the user. A developer can use own PDF profile stored in a file or define conversion process with temporary profile stored in Windows registry as explained in chapter Profile.

Registry entry

PDF Impress uses following registry key to load printing preferences from:
HKEY_CURRENT_USER\Software\BinaryNow\PDFImpress\10\Printer

PDF Impress uses following registry key to load PDF conversion preferences from:
HKEY_CURRENT_USER\Software\BinaryNow\PDFImpress\10\Printer\Job0

All PDF Impress printer settings can be modified in the above registry. PDF Conversion preference can be loaded from registry key above or from the predefined PDF Profile file.

Printing Preferences

Here are the names and descriptions of all PDF Impress printing preferences.

ProfileName   (STRING)

As mentioned earlier, every conversion process requires a PDF profile stored in a file, or temporary PDF profile stored in Windows registry database. The profile must exist and has to be accessible by PDF Impress printer. Profile file is usually created in main PDF impress application by defining tasks. Once conversion starts, the engine applies tasks defined in this profile on document you are creating. Every profile is stored in a file under: **c:\ProgramData\BinaryNow\PDFImpress 10\Profiles** folder. Profile extension is **.2pf**. Your PDF Impress 10 application comes with 5 predefined profiles.

Smallest File Size (Profile1.2pf)
Archive (Profile2.2pf)

Confidential (Profile3.2pf)
High Quality Print (Profile4.2pf)
Standard (Profile5.2pf)
Once you create your own profile then it is stored in the same folder and its name corresponds with a profile name. For example MyNewProfile is located at:
c:\ProgramData\BinaryNow\PDFImpress 10\Profiles\MyNewProfile.2pf

Use above parameter to define a profile name. It will show up under the profile icon in the main PDF Impress application. Don't forget to define the filename, too!

ProfileFileName (STRING)
A proper profile selection requires the Profile filename and its location, ProfileFileName includes complete path to the file together with its file name. Example:
c:\ProgramData\BinaryNow\PDFImpress 10\Profiles\<Your_profile_Name>.2pf

PaperSize (STRING)
This parameter identifies the paper size. You can use any paper size which is available in paper size pull down menu in Print Preferences task, but you have to use exact string that identifies the paper size you want to use. You can also create custom paper size. See guidelines here:
http://www.binarynow.com/pdf-conversion/create-custom-paper-size-windows-8-pdf-impress/

Orientation (STRING)
Paper orientation. Allowed values are:
"Portrait"
"Landscape"

Resolution (STRING)
Print resolution.
Allowed values are:
"72 DPI"
"96 DPI"
"144 DPI"
"300 DPI"
"600 DPI"
"1200 DPI"
"2400 DPI"

AllowModify (STRING)
This parameter indicates if you want to allow user to change Printing Preferences through the dialog during the interactive conversion.
Allowed values are:
"true"
"false"

SaveFileDialog (DWORD)
You can control behavior of showing Save Dialog with this preference. Allowed values are:

0 – Use standard Save As dialog. End user selects destination folder and file name for a newly created PDF. If a file already exists then a next action will be taken based on **SaveFileMergeType** parameter

1 – Use extended Save As dialog. End user selects destination folder and file name for newly created PDF. If a file already exists an overwrite / merge dialog will show up.

2 – Use folder. This is no dialog conversion. PDFs will be created silently based on **SaveFileFileName, SaveFileFolder** and **SaveFileMergeType** parameters

>2 – Number higher than 2 indicate that you want to control conversion process with your own profile defined in registry (see chapter **Profile**)

SaveFilePDFA   (STRING)

If this parameter is set, then output PDF will be PDF/A compliant
Allowed values are:
"true"
"false"

SaveFileFastWebView   (STRING)

If this parameter is set, then output PDF will be linearized PDF for fast viewing from the web.
Allowed values are:
"true"
"false"

SaveFileOpenReader   (STRING)

If "true" then a default PDF reader (usually Adobe Acrobat Reader) opens PDF document right after the conversion.
Allowed values are:
"true"
"false"

SaveFileFolder   (STRING)

String value that defines a folder where output PDF has to be stored. Please keep in a mind that the PDF Impress printer driver has to have access rights to write into this folder.

SaveFileFileName   (STRING)

String value that defines a filename used for a new PDF file. If this is empty, then default filename is used. Such default filename is usually provided by an application that handles specific file type. For example if you convert Original-Doc-file.doc file Microsoft Word changes the filename as follows "Microsoft Word – Original-Doc-file.pdf". If a file with a same name already exists, then an additional rules are applied based on **SaveFileMergeType** parameter.

SaveFileMergeType   (DWORD)

By setting this parameter you define the behavior of PDF Impress when an output file already exists. You can let user define this manually every time PDF document is created by defining SaveFileDialog setting. However if you want to create files silently, you should define one of following arguments:

0 – Overwrite existing file. If a file with the same name already exits then it will be overwritten by a new one.

1 – Add unique suffix. The process would add a unique suffix (number) to a filename, if a conflict with an existing file name exists when saving a new file.

2 – Merge before first page. If a file name defined by `SaveFileFolder` and `SaveFileFileName` already exists, newly created PDF document will be inserted into an existing file on a first page.

3 - Merge after the last page. If file name defined by `SaveFileFolder` and `SaveFileFileName` already exists, a newly created PDF document will be inserted into an existing file at the end of the document.

4 – Insert on specific page. Very similar functionality as with attributes 2 or 3 except you can define specific page number where you want to insert newly created file into. You have to set `SaveFileMergePageNum` parameter.

`SaveFileMergePageNum` (DWORD)

Only used when `SaveFileMergeType` is 4. It represents the page number in the existing PDF file where you want to insert your newly created PDF document.

Environment variables

Environment variables are a set of dynamic named values that can be used in almost any task in input fields. Environment variables are keywords enclosed between two % signs (e.g. %VARIABLENAME%) and are replaced with a true value during a conversion.

PDF Impress supports the following dynamic variables:

%DATETIME% = 2007-12-31_23_59
%DATE% = 2007-12-31
%TIME% = 12-00
%YEAR% = 2007
%MONTH% = 12
%DAY% = 31
%HOUR% = 23
%MINUTE% = 59
%SECOND% = 59
%PAGENUM% - store a current page number in Watermark task
%TOTALPAGES% - store a total page number in Watermark task
%ORIGINALFOLDER% - store original document path
%ORIGINALFILENAME% - store original document name
%EMAILFROM% - store e-mail sender
%EMAILTO% - store e-mail recipient
%EMAILCC% - store e-mail carbon copy recipient
%EMAILBCC% - store e-mail blind carbon copy recipient
%EMAILSUBJECT% - store e-mail subject

PDF Impress supports all path variables:

For a list of all variables that can be used, view the following registry key:

HKEY_CURRENT_USER\Software\Microsoft\Windows\CurrentVersion\Explorer\Shell Folders

These allow you to designate an output folder for your PDF documents. The variables usually point to some location on your computer. The most common are: %Desktop%, %Temp%. You can define your own variables with setx command, for more information please see the corresponding operating system manual. If you change the variables or create a new one please don't forget to restart PDF Impress and your Watcher.

Profile

You can define process of conversion, preferred tasks and all parameters directly in registry database without using external profile file. You need to define required entries in **Convert Preferences**.

SaveFileDialog (DWORD)
> Must be set to 3 or higher. Otherwise SaveAs dialog will take control over the conversion process.

TaskFileName (STRING)
> Contains a filename with a full path.

You need to define a list of tasks and default preferences for each task.
Use following registry entry:
HKEY_CURRENT_USER\SOFTWARE\BinaryNow\PDFImpress\10\Printer\Job0

FileName (STRING)
> We recommend setting this property with your own unique string that would identify this temporary profile. It will help you to identify problems in debug log files later.

TaskCount (DWORD)
> Defines number of tasks your profile will contain.

Task0 (STRING)
> This entry contains task name. The syntax requires using only specific names. "0" number followed by Task. Task string is zero based index. Printer expects as many tasks as defined by TaskCount entry. Each task must have defined TaskDefaults0 subentry with all properties Number "0" is in this case variable and only used to match task name with properties. No specific order is required. See individual tasks for more details. Allowed values are:
>> "Printing Preferences"
>> "Font Embedding"
>> "Image Compression"
>> "Watermark"
>> "Stamp"
>> "Attachments"
>> "Insert Pages"
>> "Remove Pages"
>> "Rotate Pages"
>> "Extract Pages"

```
"Optimization"
"Document Information"
"Page Layout"
"Convert To"
"Security"
"Save PDF"
"Digital Signature"
"E-mail"
"Print"
"Log"
```

Printing Preferences

Important: Preferences defined in **Convert Preferences** overrides those defined in Save PDF task.

PaperSize (STRING)
> This parameter identifies the paper size. You can use any paper size which is available in paper size pull down menu in Print Preferences task, but you have to use exact string that identifies the paper size you want to use. You can also create custom paper size. See guidelines here:
> http://www.binarynow.com/pdf-conversion/create-custom-paper-size-windows-8-pdf-impress/

Orientation (STRING)
> Paper orientation. Allowed values are:
> > "Portrait"
> > "Landscape"

Resolution (STRING)
> Print resolution. Allowed values are:
> > "72 DPI"
> > "96 DPI"
> > "144 DPI"
> > "300 DPI"
> > "600 DPI"
> > "1200 DPI"
> > "2400 DPI"

AllowModify (STRING)
> This parameter indicates if you want to allow user to change Printing Preferences through the dialog during the interactive conversion.
> Allowed values are:
> > "true"
> > "false"

PreserveSourcePageSize (STRING)
> When this parameter is set to true, paper size and orientation is ignored during converting image files and the output pdf paper size will use the original image aspect ratio. When this parameter is set to false, image will be placed into output pdf with defined paper size and orientation
> Allowed values are:
> > "true"
> > "false"

Font Embedding

You can use this task to define how fonts will be included in PDF file.

FontEmbed   (STRING)
> Parameter defines how fonts will be embedded in a PDF file.
> Allowed values with their meanings are:
>> "0" - Don't embed fonts.
>> "1" - Embed necessary subset.
>> "2" - Embed all fonts.

Image Compression

Image compression provides control over image fidelity in the output PDF document. You can choose the image format, quality and if you want the image to be grayscale or negative.

ICGrayscale (STRING)
> Enable this option to convert all images in created document to grayscale.
> Allowed values are:
>> "true"
>> "false"

ICImageCompression (DWORD)
> Select one of following values to define image compression algorithm.
> Allowed values are:
>> 0 – ZIP
>> 1 – JPEG
>> 2 - CCITT3
>> 3 - CCITT3(2D)
>> 4 - CCITT4

ICJPGCompression (DWORD)
> Defines level of compression used on JPEG encoded images. Only used if ICImageCompression is 1.
> Allowed values are:
>> 0 – Low quality.
>> 1 – Medium quality.
>> 2 - High quality.

ICNegative (STRING)
> By enabling this option you can change all images in created document to negative values.
> Allowed values are:
>> "true"
>> "false"

Watermark

The watermark task allows you to add a watermark to all or selected pages of your document. You can define more than one watermark, each with different parameters, in a single profile.

WText (STRING)
Enter the text you want for the watermark. You can use multiple lines too.

WFont (STRING)
Enter font name you want to use. Make sure font is installed.

WFontItalic (STRING)
Specify if you want to use Italic style of the font.
Allowed values are:
"true"
"false"

WFontBold (STRING)
Specify if you want to use Bold style of the font.
Allowed values are:
"true"
"false"

WFontSize (DWORD)
Specify font size in pixels.

WPageRange (STRING)
Specify pages where the watermark will appear in the document.
Allowed values are:
"First page"
"Last page"
"All pages"
"Even pages"
"Odd pages"
Explicit value - For example "1, 3-5" would mean that the first page
and then pages 3, 4 and 5 will be selected.

WColorB (DWORD)
Specify blue channel of used color (from RGB representation).

WColorG (DWORD)
Specify green channel of used color (from RGB representation).

WColorR (DWORD)
Specify red channel of used color (from RGB representation).

WRotation (DWORD)
Specify angle.

WOpacity (DWORD)
Specify opacity in a range between 0 and100.

WPDFLayer (DWORD)
Specify whether the watermark will appear above or below the document
content.
Allowed values are:
0 - Top layer.
1 - Bottom layer.

WPDFPlacement (DWORD)

> Select a watermark placement on a page. By using predefined values you can be sure that the Watermark will be in the exact corner or center of the page no matter what page size will be used.
> Allowed values are:
>> 0 - Top left.
>> 1 - Top margin.
>> 2 - Top right.
>> 3 - Right margin.
>> 4 - Bottom right.
>> 5 - Bottom margin.
>> 6 - Bottom left.
>> 7 - Left margin.
>> 8 - Center of the page.

Stamp

Inserting a stamp provides a great way to brand documents with a company logo, official stamp or any other image. Image stamp can be applied on selected pages only. This task can be added multiple times. You have to define number of stamps and then each stamp file has to be accessible by printing process.

ISNumItems (DWORD)

> A number of stamps you want to add to apply. You have to provide as many files through ISFileName_ property.

ISStampGroupVertically (STRING)

> Specify whether a set of stamp elements should be grouped vertically (placing them from left to right) or horizontally (placing them from top to bottom)
> Allowed values are:
>> "true"
>> "false"

ISStampOpacity (DWORD)

> Specify opacity in a range between 0 and100.

ISStampRotation (DWORD)

> Specify angle.

ISStampSize (DWORD)

> Specify zoom size that will be applied to the image before placing on a page.

ISPageRange (STRING)

> Specify pages where the stamp will be applied in the document.
> Allowed values are:
>> "First page"
>> "Last page"
>> "All pages"
>> "Even pages"
>> "Odd pages"

`Explicit value -` For example "1, 3-5" would mean that the first page and then pages 3, 4 and 5 will be selected.

`ISPDFLayer` (DWORD)
Specify whether the watermark will appear above or below the document content.
Allowed values are:
`0` - Top layer.
`1` - Bottom layer.

`ISPDFPlacement` (DWORD)
Select a stamp placement on a page. By using predefined values you can be sure that the stamp will be in the exact corner or center of the page no matter what page size will be used.
Allowed values are:
`0` - Top left.
`1` - Top margin.
`2` - Top right.
`3` - Right margin.
`4` - Bottom right.
`5` - Bottom margin.
`6` - Bottom left.
`7` - Left margin.
`8` - Center of the page.

`ISFileName_0` (STRING)
Define a location of your stamp image. This property contains full file name with folder where printer finds the image. Make sure that it's accessible. Number followed `ISFileName_` is zero based index. If you define `ISNumItems=3` then printer expects `ISFileName_0`, `ISFileName_1` and `ISFileName_2` entries.

`ISFileURL_0` (STRING)
Each image can be represented with own hyperlink. This is optional property and number followed `ISFileURL_` is index that identifies corresponding `ISFileName_` that will be connected with URL

Attachments

The attachments task provides you with the opportunity to attach other files as PDF page-level attachments so the reader can open them while viewing the PDF document. You have to define number of attachments and each file which also has to be accessible by printing process.

`AttachmentCount` (DWORD)
A number of attachments you want to add to your PDF file during a conversion.

`AttachmentIndex0` (STRING)
Filename with full path that points to first attachment. The file has to be accessible. Number followed `AttachmentIndex` is zero based index. If you define `AttachmentCount = 3` then printer expects `AttachmentIndex0`, `AttachmentIndex1` and `AttachmentIndex2` entries.

Insert Pages

Choose any page(s) from a PDF document and insert them into newly created PDF. You can use this feature to insert standard cover sheet or signature pages to every PDF document you create.

`InsertPagesFile` (STRING)
>   Filename with full path that points a valid PDF file you want to insert into your newly created document.

`InsertPagesRange` (STRING)
>   String that defines range of pages to be inserted from `InsertPagesFile` into new document. Use predefined values or page numbers. If specify explicitly, make sure those pages exist.
>   Allowed values are:
>>   `"First page"`
>>   `"Last page"`
>>   `"All pages"`
>>   `"Even pages"`
>>   `"Odd pages"`
>>   `Explicit value` - For example "1, 3-5" would mean that the first page and then pages 3, 4 and 5 will be selected.

`InsertPagesAt` (DWORD)
>   Specify where in the newly created document you want to insert your file (or selected pages).
>   Allowed values are:
>>   `0` - Before the first page.
>>   `1` - After the last page.
>>   `2` - Insert on page (please specify with `InsertPagesOnPage`).

`InsertPagesOnPage` (DWORD)
>   Defines page number where you want to insert file. This is used only if `InsertPagesAt` is `2.`

Remove Pages

Allows automatic page removal from newly created PDF file.

`RemovePagesRange` (STRING)
>   Specify pages from the PDF file you want to remove.
>   Allowed values are:
>>   `"First page"`
>>   `"Last page"`
>>   `"All pages"`
>>   `"Even pages"`
>>   `"Odd pages"`
>>   `Explicit value` - For example "1, 3-5" would mean that the first page and then pages 3, 4 and 5 will be selected.

Rotate Pages

Rotate individual pages in a PDF document.

RotatePagesPageRange (STRING)
>Specify pages you want to remove from a PDF file.
>Allowed values are:
>>"First page"
>>"Last page"
>>"All pages"
>>"Even pages"
>>"Odd pages"
>>Explicit value - For example "1, 3-5" would mean that the first page and then pages 3, 4 and 5 will be selected.

RotatePagesRotation (STRING)
>Choose the angle the pages will be rotated. Keep in mind that default direction is clockwise.
>Allowed values are:
>>"0°"
>>"90°"
>>"180°"
>>"270°"

RotatePagesType (DWORD)
>Define pages you want to rotate.
>Allowed values are:
>>0 - All pages.
>>1 - Only portrait.
>>2 - Only landscape.

Extract Pages

Extract page(s) from the PDF document and store them into a separate PDF file.

ExtractPagesFilename (STRING)
>Define a prefix for a filename. If more files will be created, consider ExtractPagesSeparate option. Unique file name will be created based on defined prefix followed by a page number.

ExtractPagesFolder (STRING)
>Define folder where extracted file(s) will be stored. Make sure that the folder exists and printer has write access right to it.

ExtractPagesRange (STRING)
>Allowed values are:
>>"First page"
>>"Last page"
>>"All pages"
>>"Even pages"
>>"Odd pages"

Explicit value - For example "1, 3-5" would mean that the first page and then pages 3, 4 and 5 will be selected.

ExtractPagesRemove (STRING)

Once a page is extracted, it can be removed from the original file by setting this parameter.
Allowed values are:
"true"
"false"

ExtractPagesSeparate (STRING)

When more than one page will be extracted, you can use this parameter to specify if you want to create individual files for every page or have the page selections saved in one single file.
Allowed values are:
"true"
"false"

Optimization

Advanced optimization task can be control by following entries. If the values are missing, the "true" is used as a default value.

Optimalization3DAnnot (STRING)
Allowed values are:
"true"
"false"

OptimalizationAttachments (STRING)
Allowed values are:
"true"
"false"

OptimalizationBookmarks (STRING)
Allowed values are:
"true"
"false"

OptimalizationCaretAnnot (STRING)
Allowed values are:
"true"
"false"

OptimalizationCircleAnnot (STRING)
Allowed values are:
"true"
"false"

OptimalizationCompress (STRING)
Allowed values are:
"true"
"false"

OptimalizationFileAttachmentAnnot (STRING)
      Allowed values are:
           "true"
           "false"

OptimalizationFormFields (STRING)
      Allowed values are:
           "true"
           "false"

OptimalizationFreeText (STRING)
      Allowed values are:
           "true"
           "false"

OptimalizationHighlightAnnot (STRING)
      Allowed values are:
           "true"
           "false"

OptimalizationInkAnnot (STRING)
      Allowed values are:
            "true"
            "false"

OptimalizationJavascript (STRING)
      Allowed values are:
           "true"
           "false"

OptimalizationLayers (STRING)
      Allowed values are:
           "true"
           "false"

OptimalizationLineAnnot (STRING)
      Allowed values are:
           "true"
           "false"
OptimalizationLinkAnnot (STRING)
      Allowed values are:
           "true"
           "false"

OptimalizationMovieAnnot (STRING)
      Allowed values are:
           "true"
           "false"

OptimalizationPolyLineAnnot (STRING)
      Allowed values are:
           "true"
           "false"

OptimalizationPolygonAnnot (STRING)
Allowed values are:
"true"
"false"

OptimalizationPopupAnnot (STRING)
Allowed values are:
"true"
"false"

OptimalizationPrinterMarkAnnot (STRING)
Allowed values are:
"true"
"false"

OptimalizationScreenAnnot (STRING)
Allowed values are:
"true"
"false"

OptimalizationSecurity (STRING)
Allowed values are:
"true"
"false"

OptimalizationSoundAnnot (STRING)
Allowed values are:
"true"
"false"

OptimalizationSquareAnnot (STRING)
Allowed values are:
"true"
"false"

OptimalizationSquigglyAnnot (STRING)
Allowed values are:
"true"
"false"
OptimalizationStampAnnot (STRING)
Allowed values are:
"true"
"false"

OptimalizationStrikeOutAnnot (STRING)
Allowed values are:
"true"
"false"

OptimalizationTextAnnot (STRING)
Allowed values are:
"true"
"false"

OptimalizationTrapNetAnnot (STRING)
Allowed values are:
"true"
"false"

OptimalizationUnderlineAnnot (STRING)
Allowed values are:
"true"
"false"

OptimalizationWatermarkAnnot (STRING)
Allowed values are:
"true"
"false"

OptimalizationWidgetAnnot (STRING)
Allowed values are:
"true"
"false"

Document Information

PDF document information is metadata that can be used to effectively search and organize PDF documents. Search engines commonly use metadata to effectively index a document. You can set following properties:

Author (STRING)
Enter the author's name.

Keywords (STRING)
Enter the keywords for this document.

Subject (STRING)
Enter the subject this document is about.

Title (STRING)
Enter the title of this document.

Page Layout

This task determines which panes and tabs are displayed in the Adobe Reader application when the PDF document is opened.

PLDisplayMode (DWORD)
> There are six allowed modes that PDF can be opened in.
> Allowed values are:
>> 0 - Page Only.
>> 1 - Bookmarks Panel and Page.
>> 2 - Attachments Panel and Page.
>> 3 - Content Group Panel and Page.
>> 4 – Thumbnails.
>> 5 - Full Screen.

PLPageMode (DWORD)
> You can select how the page area will be displayed when PDF is open.
> Allowed values are:
>> 0 - Single page.
>> 1 - One column.
>> 2 - Two columns, odd-numbered pages on left.
>> 3 - Two columns, odd-numbered pages on right.

PLPageZoom (STRING)
> Define initial zoom used for displaying the page.
> Allowed values are:
>> "Default"
>> "Fit Page"
>> "Fit Width"
>> "Fit Height"
>> "Fit Visible"
>> "10%"
>> "25%"
>> "50%"
>> "75%"
>> "100%"
>> "125%"
>> "150%"
>> "200%"
>> "400%"
>> "800%"
>> "1600%"

PLPageNum (DWORD)
> You can define the page number that should be showed as first when opening document.

Convert To

The Convert To task allows exporting selected pages into an image file.

RenderToFileName (STRING)

Define a prefix for a filename. This task will create files with a name based on this prefix.

RenderToFolder   (STRING)
Define folder where extracted files will be stored. Make sure that the folder exists and printer has write access rights to it.

RenderToFormat   (STRING)
Select a preferred output format. Every selected page will be converted into a single image file.
Allowed values are:
"BMP"
"JPEG"
"WMF"
"EMF"
"EPS"
"PNG"
"GIF"
"TIFF"
"EMF+"
"HTML5"
"G4 TIFF"

RenderToMultipage (STRING)
If the output format is *TIFF*, you can create a single output file which will include multiple exported pages.
Allowed values are:
"true"
"false"

RenderToPageRange   (STRING)
Specify the pages from PDF document you want to convert.
Allowed values are:
"First page"
"Last page"
"All pages"
"Even pages"
"Odd pages"
Explicit value - For example "1, 3-5" would mean that the first page and then pages 3, 4 and 5 will be selected.

RenderToResolution   (STRING)
Print resolution.
Allowed values are:
"72 DPI"
"96 DPI"
"144 DPI"
"300 DPI"
"600 DPI"
"1200 DPI"
"2400 DPI"

Security

This will allow you to limit access to content in PDF document(s) created by PDF Impress. Adding security to a PDF document provides powerful RC4 or AES encryption, password protection options and permissions control.

SecurityEncryption (DWORD)
> Select an algorithm you want to use. By this you also choose the compatibility with specific versions of Adobe Acrobat.
> Allowed values are:
>> 0 - 256-bit AES encryption (requires Acrobat X or later).
>> 1 - 256-bit AES encryption (requires Acrobat 9 or later).
>> 2 - 128-bit AES encryption (requires Acrobat 7 or later).
>> 3 - 128-bit RC4 encryption.
>> 4 - 40-bit encryption.

SecurityChangePassword (STRING)
> Anyone who wants to change the document passwords or document permissions must know this password.

SecurityOpenPassword (STRING)
> Anyone that wants to open (read) the document must know this password.

SecurityAllowChange (STRING)
> Enable this permission to allow users to make changes.
> Allowed values are:
>> "true"
>> "false"

SecurityAllowComment (STRING)
> Enable this permission to allow users to change comments.
> Allowed values are:
>> "true"
>> "false"

SecurityAllowCopy (STRING)
> Enable this permission to allow users to copy text, graphics and enable the accessibility interface.
> Allowed values are:
>> "true"
>> "false"

SecurityAllowPrint (STRING)
> Enable this permission to allow the document to be printed.
> Allowed values are:
>> "true"
>> "false"

SecurityAllowAssemble (STRING)
> Enable this permission to allow user to extract, insert pages (not allowed with 40-bit encryption). Allowed values are:
>> "true"
>> "false"

SecurityAllowFillFields (STRING)

  Enable this permission to allow user to fill in form fields (not allowed with 40-bit encryption).

  Allowed values are:
    "true"
    "false"

SecurityAllowCopyAccess (STRING)

  Enable this permission to allow user to enable the accessibility interface (not allowed with 40-bit encryption).

  Allowed values are:
    "true"
    "false"

SecurityAllowFullyPrint (STRING)

  Enable this permission to allow the document to be printed in high resolution (not allowed with 40-bit encryption).

  Allowed values are:
    "true"
    "false"

Save PDF

Parameters in this task allow defining what will happen with a created PDF document.
Important: Preferences defined in **Printing Preferences** overrides those defined in Save PDF task. If you set only Save PDF task, printer driver will copy data from your **Save As** task to **Printing preferences**. To avoid confusion we recommend using **Printing Preferences** to set behavior of Save PDF task or delete **Printing Preferences** before every conversion.

`SaveFileDialog` (DWORD)
> You can control behavior of showing Save Dialog with this preference.
> Allowed values are:
>> `0` – Use standard Save As dialog where end user would define destination folder and file name for newly created PDF. If file already exist then next action will be taken based on `SaveFileMergeType` parameter.
>> `1` – Use Extended Save as dialog. End user would define Folder and File name. If the file with the same name already exists, user will get a change to decide its action in an Overwrite dialog.
>> `2` – Use folder. End user will not be notified, but PDF will be created silently based on `SaveFileFileName,` `SaveFileFolder` and `SaveFileMergeType` parameters.

`SaveFilePDFA` (STRING)
> If this parameter is set, then output PDF will be PDF/A compliant.
> Allowed values are:
>> `"true"`
>> `"false"`

`SaveFileOpenReader` (STRING)
> If "true" then the default PDF reader (usually Adobe® Reader®) opens PDF right after the conversion.
> Allowed values are:
>> `"true"`
>> `"false"`

`SaveFileFolder` (STRING)
> Defines a folder where output PDF will to be stored. Please keep in mind that the PDF Impress printer driver has to have write access rights into such folder.

`SaveFileFileName` (STRING)
> Predefined filename for output PDF file. If this is empty, then default filename is used. Default filename is usually provided by application associated with specific document type. For example if you convert Original-Doc-file.doc file. Microsoft Word will change the filename as follows "Microsoft Word – Original-Doc-file.pdf". If a file with the same name already exists then additional rules are applied based on `SaveFileMergeType` parameter.

`SaveFileMergeType` (DWORD)
> By setting this parameter, you define the behavior of PDF Impress when output filename already exists. You can let user define this manually every

time PDF document is created by defining `SaveFileDialog` setting. However if you want to create files silently, you should define one of following arguments:

> `0` – Overwrite existing file. If file with the same name already exits then it will be overwritten by new one.
>
> `1` – Add unique suffix. The process would add a unique suffix (number) to a filename.
>
> `2` – Merge before first page. If file name defined by `SaveFileFolder` and `SaveFileFileName` already exists newly created PDF document will be inserted into the existing file on a first page.
>
> `3` - Merge after the last page. If file name defined by `SaveFileFolder` and `SaveFileFileName` already exists newly created PDF document will be inserted into the existing file at the end of the document.
>
> `4` – Insert on specific page. Very similar functionality as with attributes 2 or 3 except you can define specific page number where you want to insert newly created file into. You have to set `SaveFileMergePageNum` parameter.

`SaveFileMergePageNum` (DWORD)

> Only used when `SaveFileMergeType` is `4`. It represents the page number in the existing PDF file where you want to insert a newly created PDF document.

Digital Signature

Digital Signature task will ensure the recipient that the PDF document came from you and that you will vouch for the content. The Digital Signature will also provide tamper-resistance so the recipient can detect unauthorized changes. You need certificate in .pfx format to digitally sign a document. Optionally you can define appearance that adds visual representation of the signature to a page.

`DSCertBlobPFXLength` (DWORD)

> Length of a certificate in bytes that you want to use for signing.

`DSCertBlobPFX` (BINARY)

> You need to load a whole certificate into this registry entry. The certificate has to have a private key as well as to be able to use it for signing. Binary data must have exactly `DSCertBlobPFXLength` size in bytes.

`DSPFXPassword` (STRING)

> A password required to work with certificate.

`DSLocation` (STRING)

> A physical location where the signing occurred.

`DSContact` (STRING)

> E-mail address of the signer.

`DSReason` (STRING)

> You can specify a reason for signing a document by selecting a pre-defined reason from the list available in task or type your own reason in this field.

DSIncludeAppearance (STRING)
>   If this parameter is set, then a document will contain a visualization of a
>   digital signature.
>
>   Allowed values are:
>   "true"
>   "false"

DSPage (STRING)
>   Specify the exact page where a digital signature visualization will appear in
>   the PDF document.
>   Allowed values are:
>   "First page"
>   "Last page"
>   Explicit value - For example "2" would mean that the second page.

DSAppearanceFileName (STRING)
>   A filename with full path that points to an image file with your signature
>   appearance.

DSAppearanceText (STRING)
>   Enter a text you want to add to your visual representation of the signature.

DSAppearancePlacement (DWORD)
>   Select a digital signature visualization placement on a page. By using
>   predefined values you can be sure that a Signature field will be in the exact
>   corner or center of the page no matter what page size will be used.
>
>   Allowed values are:
>   0 - Top left.
>   1 - Top margin.
>   2 - Top right.
>   3 - Right margin.
>   4 - Bottom right.
>   5 - Bottom margin.
>   6 - Bottom left.
>   7 - Left margin.
>   8 - Center of the page.

DSAppearanceSize (DWORD)
>   Specify zoom size that will be applied to a signature image before placing on
>   a page.

DSAppearanceHeight (DWORD)
>   A height of an image defined by DSAppearanceFileName property.

DSAppearanceWidth (DWORD)
>   A width of image defined by DSAppearanceFileName property.

E-mail

Setting up this task will either launch the Microsoft Outlook email client and attach your PDF document to a new message, send an e-mail with PDF attachment silently using the Outlook e-mail client or send e-mail with PDF attachment directly through SMTP server.

EmailMethod   (STRING)
>   PDF Impress supports three methods of sending PDFs via e-mail.
>   Allowed values are:
>> "Launch Microsoft Outlook e-mail client"
>> "Send silently using Outlook e-mail client"
>> "Send directly to SMTP server"

EmailCollectFilesPerConversion (STRING)
>   Set this option if you want to send a single email with multiple PDF attachments.
>   Allowed values are:
>> "true"
>> "false"

EmailSubject   (STRING)
>   This is the subject of the e-mail.

EmailBody   (STRING)
>   This is the text that will be used for the body of the e-mail.

EmailFrom   (STRING)
>   This is the address that the e-mail will come from.

EmailTo   (STRING)
>   This is the address that the e-mail will be sent to.

EmailBcc   (STRING)
>   This is the address where a blind carbon copy of the e-mail will be sent to.

EmailCC   (STRING)
>   This is the address where a copy of the e-mail will be sent to.

EmailMailLogin   (STRING)
>   If your SMTP server requires authentication, enter the user name. Only used if EmailMethod = "Send directly to SMTP server".

EmailMailPassword   (STRING)
>   If your SMTP server requires authentication, enter the password. Only used if EmailMethod = "Send directly to SMTP server".

EmailMailServer   (STRING)
>   Specify the address of your SMTP server (e.g. smtp.gmail.com, smtp.live.com, smt.aol.com etc.).
>   Only used if EmailMethod = "Send directly to SMTP server".

EmailMailPort (STRING)
Enter the port of your SMTP server.
Only used if EmailMethod = "Send directly to SMTP server".

EmailSecurity (STRING)
Specify SSL or TLS depends on your SMTP server.
Only used if EmailMethod = "Send directly to SMTP server".
Allowed values are:
"SSL"
"TLS"

Print

Automate PDF document printing after a conversion.

PrintPrinterName (STRING)
Define printer name as seen in Control Panel.

PageScaleType (DWORD)
You can scale size of printed PDF pages.
Allowed values are:
0 - Actual size.
1 - Fit.
2 - Shrink oversized pages.

PrintPageRangeType (DWORD)
Select range of pages you want to print.
Allowed values are:
0 – All pages.
1 – Current page (not allowed in automated processing!).
2 – Page defined by PrintPage parameter.

PrintPage (STRING)
Define page range. Only used if PrintPageRangeType = 2.

NumOfCopies (DWORD)
Allow printing multiple copies in one print job.

RotateAndAutoCenter (STRING)
If checked PDF Impress Tools will rotate pages to fit on the output medium
and will places them in the center of the page.
Allowed values are:
"true"
"false"

Log

This task will activate the logging, or recording of actions.

`WatcherOutputJournalName` (STRING)
> Creates a plain text file that's suitable for automated processing. Define a prefix for a journal file here. To avoid creating big files, new journal files are created daily with a date in a filename.

`WatcherOutputJournalFolder` (STRING)
> Define folder where journal files will be stored. Make sure that the folder exists and printer has write access rights to it.

`WatcherOutputLogName` (STRING)
> Create user friendly HTML format file that records all the actions. Define a prefix for a log file here. To avoid creating big files, new log files are created daily with a date in a filename.

`WatcherOutputLogFolder` (STRING)
> Define folder where log files will be stored. Make sure that the folder exists and printer does have write access rights to it.

General Preferences

Following registry location is used to store global settings.
HKEY_CURRENT_USER\Software\BinaryNow\PDFImpress\10\Settings

Currently you can programmatically define a way how the application works with debug log. That could be especially helpful in troubleshooting. Debug log is text file that contains a lot of details about processes, operation, exceptions etc. Be aware that debug log can grow dramatically in size when used on production machine.

`UseDebugLog` (STRING)
> If "true" then the debug log is being created and used and all operations are stored in text file named DebugLogMM_DD_YY.txt in folder defined by `DebugLogFolder` parameter.
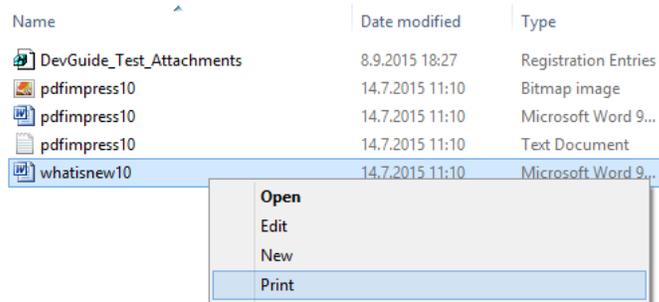> Allowed values are:
> > `"true"`
> > `"false"`

`DebugLogFolder` (STRING)
> You can define full path where you want to store debug file. The folder must exist.

Examples

You can easily test the integration without programming. Manually set appropriate registry entries, then right click the document you want to convert and select **Print**. Please make sure **PDF Impress** printer is set as default.

Add Attachments

This sample shows you how to use Attachments task to automate conversion process by adding additional files into your output file.

Sample expects following files in C:\test folder:
PDFImpress10.bmp
PDFImpress10.xml
PDFImpress10.doc

And created PDF files into **C:\test\myResult_with_attachments.pdf**

Your preferences in registry format will be as follows:
Windows Registry Editor Version 5.00

[HKEY_CURRENT_USER\Software\BinaryNow\PDFImpress\10\Printer]
"SaveFileDialog"=dword:100
"TaskFileName"="C:/test/myResult_with_attachments.pdf"

[HKEY_CURRENT_USER\Software\BinaryNow\PDFImpress\10\Printer\Job0]
"TaskCount"=dword:00000005
"FileName"="temp profile"
"Task0"="Printing Preferences"
"Task1"="Font Embedding"
"Task2"="Attachments"
"Task3"="Document Information"
"Task4"="Save PDF"

[HKEY_CURRENT_USER\Software\BinaryNow\PDFImpress\10\Printer\Job0\TaskDefaults0]
"AllowModify"="true"
"Orientation"="Portrait"
"PaperSize"="Letter"
"Resolution"="96 DPI"

[HKEY_CURRENT_USER\Software\BinaryNow\PDFImpress\10\Printer\Job0\TaskDefaults1]
"FontEmbed"="0"

[HKEY_CURRENT_USER\Software\BinaryNow\PDFImpress\10\Printer\Job0\TaskDefaults2]
"AttachmentCount"=dword:3
"AttachmentIndex0"="c:/test/PDFImpress10.bmp"

"AttachmentIndex1"="c:/test/PDFImpress10.xml"
"AttachmentIndex2"="c:/test/PDFImpress10.doc"

[HKEY_CURRENT_USER\Software\BinaryNow\PDFImpress\10\Printer\Job0\TaskDefaults3]
"Author"="author"
"Keywords"="keywords"
"Subject"="subject"
"Title"="title"

[HKEY_CURRENT_USER\Software\BinaryNow\PDFImpress\10\Printer\Job0\TaskDefaults4]
"SaveFileMergePageNum"=dword:1
"SaveFileMergeType"=dword:0
"SaveFileOpenReader"=dword:1